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gga aag ad Gly Lys Th 490												2742
gta aca ac Val Thr Th	nr Ala I											2790
gta ccg aa Val Pro Ly	-				Asp	-	_			_		2838
atc ctc at Ile Leu II				y Gly					taa	taa		2883
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<210> 4

<211> 550

<212> PRT

<213> Artificial

<220>

<223> sequence for recombinant adeno-associated viral vector, including
 plasmid backbone, with AAV2 internal terminal repeats that flank
 expression cassette; referred to as AAV2/5 CMV luciferase

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Leu Glu Asp Gly Thr Ala Gly Glu Gln Leu His Lys Ala Met Lys Arg 20 25 30

Tyr Ala Leu Val Pro Gly Thr Ile Ala Phe Thr Asp Ala His Ile Glu 35 40 45

Val Asp Ile Thr Tyr Ala Glu Tyr Phe Glu Met Ser Val Arg Leu Ala 50 60

Glu Ala Met Lys Arg Tyr Gly Leu Asn Thr Asn His Arg Ile Val Val 65 70 75 80

Cys Ser Glu Asn Ser Leu Gln Phe Phe Met Pro Val Leu Gly Ala Leu 85 90 95

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Phe	Ile	Gly	Val 100	Ala	Val	Ala	Pro	Ala 105	Asn	Asp	Ile	Tyr	Asn 110	Glu	Arg
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Ser	Lys 130	Lys	Gly	Leu	Gln	Lys 135	Ile	Leu	Asn	Val	Gln 140	Lys	Lys	Leu	Pro
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Phe	Gln	Ser	Met	Tyr 165	Thr	Phe	Val	Thr	Ser 170	His	Leu	Pro	Pro	Gly 175	Phe
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Ala	Leu	Ile 195	Met	Asn	Ser	Ser	Gly 200	Ser	Thr	Gly	Leu	Pro 205	Lys	Gly	Val
Ala	Leu 210	Pro	His	Arg	Thr	Ala 215	Cys	Val	Arg	Phe	Ser 220	His	Ala	Arg	Asp
Pro 225	Ile	Phe	Gly	Asn	Gln 230	Ile	Ile	Pro	Asp	Thr 235	Ala	Ile	Leu	Ser	Val 240
Val	Pro	Phe	His	His 245	Gly	Phe	Gly	Met	Phe 250	Thr	Thr	Leu	Gly	Tyr 255	Leu
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Phe	Leu	Arg 275	Ser	Leu	Gln	Asp	Tyr 280	.Lys	Ile	Gln	Ser	Ala 285	Leu	Leu	Val
Pro	Thr 290	Leu	Phe	Ser	Phe	Phe 295	Ala	Lys	Ser	Thr	Leu 300	Ile	Asp	Lys	Tyr
Asp 305	Leu	Ser	Asn	Leu	His 310	Glu	Ile	Ala	Ser	Gly 315	Gly	Ala	Pro	Leu	Ser 320
Lys	Glu	Val	Gly	Glu 325	Ala	Val	Ala	Lys	Arg 330	Phe	His	Leu	Pro	Gly 335	Ile

Arg Gln Gly Tyr Gly Leu Thr Glu Thr Thr Ser Ala Ile Leu Ile Thr 340 Pro Glu Gly Asp Asp Lys Pro Gly Ala Val Gly Lys Val Val Pro Phe 360 Phe Glu Ala Lys Val Val Asp Leu Asp Thr Gly Lys Thr Leu Gly Val 375 Asn Gln Arg Gly Glu Leu Cys Val Arg Gly Pro Met Ile Met Ser Gly 390 395 Tyr Val Asn Asn Pro Glu Ala Thr Asn Ala Leu Ile Asp Lys Asp Gly 405 410 415 Trp Leu His Ser Gly Asp Ile Ala Tyr Trp Asp Glu Asp Glu His Phe Phe Ile Val Asp Arg Leu Lys Ser Leu Ile Lys Tyr Lys Gly Tyr Gln 440 Val Ala Pro Ala Glu Leu Glu Ser Ile Leu Leu Gln His Pro Asn Ile 455 Phe Asp Ala Gly Val Ala Gly Leu Pro Asp Asp Ala Gly Glu Leu 465 470 475 Pro Ala Ala Val Val Leu Glu His Gly Lys Thr Met Thr Glu Lys 485 490 Glu Ile Val Asp Tyr Val Ala Ser Gln Val Thr Thr Ala Lys Lys Leu 500 505 510 Arg Gly Gly Val Val Phe Val Asp Glu Val Pro Lys Gly Leu Thr Gly 515 520 Lys Leu Asp Ala Arg Lys Ile Arg Glu Ile Leu Ile Lys Ala Lys Lys 530 535 540 Gly Gly Lys Ile Ala Val 545 <210> 5 <211> 3618 <212> DNA

<213> Artificial

<220>

<223> sequence for recombinant adeno-associated viral vector, including plasmid backbone, with AAV2 internal terminal repeats that flank expression cassette; referred to as AAV2/5 U6 lucRI-la

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atgctctagg	aagatcggaa	ttcgccctta	agctagcccc	cagtggaaag	acgcgcaggc	480
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<211> 3920

<212> DNA

<213> Artificial

<220>

<223> sequence for recombinant adeno-associated viral vector, including
 plasmid backbone, with AAV2 internal terminal repeats that flank
 expression cassette; referred to as AAV2/5 U6 lucRI-lb

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<210> 7

<211> 3923

<212> DNA

<213> Artificial

<220>

<223> sequence for recombinant adeno-associated viral vector, including plasmid backbone, with AAV2 internal terminal repeats that flank expression cassette; referred to as AAV2/5 U6/U6 lucRIU6-3

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<212> DNA

<213> Artificial

<220>

<223> sequence for recombinant adeno-associated viral vector, including
 plasmid backbone, with AAV2 internal terminal repeats that flank
 expression cassette; referred to as AAV2/5 U6 lucRI-4(sense)

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<210> 9

<211> 3589

<212> DNA

<213> Artificial

<220>

<223> sequence for recombinant adeno-associated viral vector, including
 plasmid backbone, with AAV2 internal terminal repeats that flank
 expression cassette; referred to as AAV2/5 U6 lucRI-4(antisense)

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<210> 10

<211> 3617

<212> DNA

<213> Artificial

<220>

<223> sequence for recombinant adeno-associated viral vector, including plasmid backbone, with AAV2 internal terminal repeats that flank expression cassette; referred to as AAV2/2 U6 eGFPRI-la

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tcactcatta	ggcaccccag	gctttacact	ttatgcttcc	ggctcgtatg	ttgtgtggaa	180
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<210> 11

<211> 3787

<212> DNA

<213> Artificial

<220>

<223> sequence for recombinant adeno-associated viral vector, including plasmid backbone, with AAV2 internal terminal repeats that flank expression cassette; referred to as AAV2/5 poll lucRI

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